

5-8 At the completion of this unit, the paramedic student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the patient with a toxic exposure.

At the completion of this unit, the paramedic student will be able to:

- 5-8.1 Describe the incidence, morbidity and mortality of toxic emergencies. (C-1)
- 5-8.2 Identify the risk factors most predisposing to toxic emergencies. (C-1)
- 5-8.3 Discuss the anatomy and physiology of the organs and structures related to toxic emergencies. (C-1)
- 5-8.4 Describe the routes of entry of toxic substances into the body. (C-1)
- 5-8.5 Discuss the role of the Poison Control Center in the United States. (C-1)
- 5-8.6 List the toxic substances that are specific to your region. (C-1)
- 5-8.7 Discuss the pathophysiology of the entry of toxic substances into the body. (C-1)
- 5-8.8 Discuss the assessment findings associated with various toxidromes. (C-1)
- 5-8.9 Identify the need for rapid intervention and transport of the patient with a toxic substance emergency. (C-1)
- 5-8.10 Discuss the management of toxic substances. (C-1)
- 5-8.11 Define poisoning by ingestion. (C-1)
- 5-8.12 List the most common poisonings by ingestion. (C-1)
- 5-8.13 Describe the pathophysiology of poisoning by ingestion. (C-1)
- 5-8.14 Recognize the signs and symptoms related to the most common poisonings by ingestion. (C-1)
- 5-8.15 Correlate the abnormal findings in assessment with the clinical significance in the patient with the most common poisonings by ingestion. (C-1)
- 5-8.16 Differentiate among the various treatments and pharmacological interventions in the management of the most common poisonings by ingestion. (C-3)
- 5-8.17 Discuss the factors affecting the decision to induce vomiting in a patient with ingested poison. (C-1)
- 5-8.18 Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the patient with the most common poisonings by ingestion. (C-3)
- 5-8.19 Define poisoning by inhalation. (C-1)
- 5-8.20 List the most common poisonings by inhalation. (C-1)
- 5-8.21 Describe the pathophysiology of poisoning by inhalation. (C-1)
- 5-8.22 Recognize the signs and symptoms related to the most common poisonings by inhalation. (C-1)
- 5-8.23 Correlate the abnormal findings in assessment with the clinical significance in patients with the most common poisonings by inhalation. (C-1)
- 5-8.24 Differentiate among the various treatments and pharmacological interventions in the management of the most common poisonings by inhalation. (C-3)
- 5-8.25 Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the patient with the most common poisonings by inhalation. (C-3)
- 5-8.26 Define poisoning by injection. (C-1)
- 5-8.27 List the most common poisonings by injection. (C-1)
- 5-8.28 Describe the pathophysiology of poisoning by injection. (C-1)
- 5-8.29 Recognize the signs and symptoms related to the most common poisonings by injection. (C-1)
- 5-8.30 Correlate the abnormal findings in assessment with the clinical significance in the patient with the most common poisonings by injection. (C-3)
- 5-8.31 Differentiate among the various treatments and pharmacological interventions in the management of the most common poisonings by injection. (C-3)
- 5-8.32 Integrate pathophysiological principles and the assessment findings to formulate a field impression and implement a treatment plan for the patient with the most common poisonings by injection. (C-3)

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- None identified for this unit.

- I. General toxicology, assessment and management
 - A. Types of toxicological emergencies
 1. Unintentional poisoning
 - a. Dosage errors
 - b. Idiosyncratic reactions
 - c. Childhood poisoning
 - d. Environmental exposure
 - e. Occupational exposures
 - f. Neglect and Abuse
 2. Drug/ alcohol abuse
 3. Intentional poisoning/ overdose
 - a. Chemical warfare
 - b. Assault/ homicide
 - c. Suicide attempts
 - B. Use of poison control centers
 - C. Routes of absorption
 1. Ingestion
 2. Inhalation
 3. Injection
 4. Absorption
 - D. Poisoning by ingestion
 1. Examples
 2. Anatomy and physiology review
 - a. Absorption
 - b. Distribution
 3. Assessment findings
 4. General management considerations
 - E. Poisoning by inhalation
 1. Examples
 2. Anatomy and physiology review
 - a. Absorption
 - b. Distribution
 3. Assessment findings
 4. General management considerations
 - F. Poisoning by injection
 1. Examples
 - a. IV drug abuse
 - b. Venomous bites and stings
 2. Anatomy and physiology review
 - a. Absorption
 - b. Distribution
 3. Assessment findings
 4. General management considerations
 - G. Poisoning by absorption
 1. Examples
 2. Anatomy and physiology review
 - a. Absorption
 - b. Distribution

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- ## II. Specific toxicology, assessment and management

1. Clinical uses
2. Common causative agents
3. Common street names
4. Pharmacodynamics
5. Pharmacokinetics
6. Assessment findings
7. Management
 - a. Airway and ventilation

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- S. Plants and mushrooms
 1. Clinical use
 2. Common causative agents
 3. Common street names
 4. Pharmacodynamics
 5. Pharmacokinetics
 6. Assessment findings
 7. Management
 - a. Airway and ventilation
 - b. Circulation
 - c. Pharmacological
 - d. Non-pharmacological

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